

PROJECT NAME: Syracuse City Secondary Water Survey

RECIPIENT: Syracuse City

LOCATION: Syracuse, Utah

PURPOSE: Syracuse City, in Davis County Utah currently operates approximately 50 miles of new and old sub-terranean land drainage systems. Many of these land drain lines were installed over 60 years ago and are in disrepair. In addition to the needed repair and replacement of old lines, the City has a great need to formalize, document and quantify old and new land drain systems. The City has need to perform several miles of line replacement re-construction.

The City desires to complete a “Land Drain Water Study” to enhance the City’s understanding of line replacement needs, funding options, and to promote beneficial use and capture of the subterranean water resource.

Historically, these land drain lines were installed by farmers and settlers who moved into the Syracuse area in early to mid 1940’s. The pipelines are made of red clay segmented pipe with joints butted together about 7 to 10 feet into the ground. The users of these early land drains did not adequately record or map these pipe lines. Furthermore, the pipe lines have been utilized in some cases to provide service to newer portions of the City by residential development creating a liability for the City and our residents. Reconstruction of old land drain lines is greatly needed to limit flooding liability.

Furthermore, the City now requires new residential land development to provide 8-inch land drainage systems constructed in subdivision roads that are operated very similar to a typical sanitary sewer system. However, unlike sanitary sewer the system, land drains collect and route sub-surface water typically to the City’s storm drainage systems. These land drainage systems are currently not organized formally as a City utility service; the City desires to investigate their potential management opportunity as a future shallow aquifer collection, treatment, and distribution resource.

AMOUNT: \$500,000